



Progress in State and Local Surveillance Capacity: How do we measure the impact of NEDSS and PHIN?

PHIN Conference

May 11, 2005

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Surveillance Funding History

- 50 states, 6 cities funded for NEDSS: 43 started with Assessment & Planning phase in September 2000
- NEDSS ELC awards FY 2001-2005
- September 2002, 2003, 2004: Public Health and Social Services Emergency Fund provides >\$1 billion for state and local public health preparedness capacity
 - guidance from CDC and HRSA to use PHIN standards for IT investments
 - Guidance explicitly includes NEDSS as part of surveillance

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Are we there yet?

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What can NEDSS do that will improve public health surveillance?

- ◆ More timely detection via **Electronic laboratory results** reporting (ELR) from clinical diagnostic laboratories
 - For pre-defined public health results, electronic message to health department **automatically sent**
 - Message includes structured data including test, result, provider ID, patient age, sex
 - Multi-jurisdiction labs, public health labs, some local labs
- ◆ **Web data entry**: case information available to local & state health departments immediately on entry (no paper, no mail)

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What can NEDSS do that will improve public health surveillance?

- ◆ Support case investigation by state and local health dept
- ◆ Share lab results **electronically** between state **public health lab** & state surveillance
- ◆ Send standardized data electronically to CDC
- ◆ Same application for over 140 diseases, replace disease specific “stovepipe” applications
- ◆ Integrate with other PHIN components

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Status of NEDSS surveillance enhancements

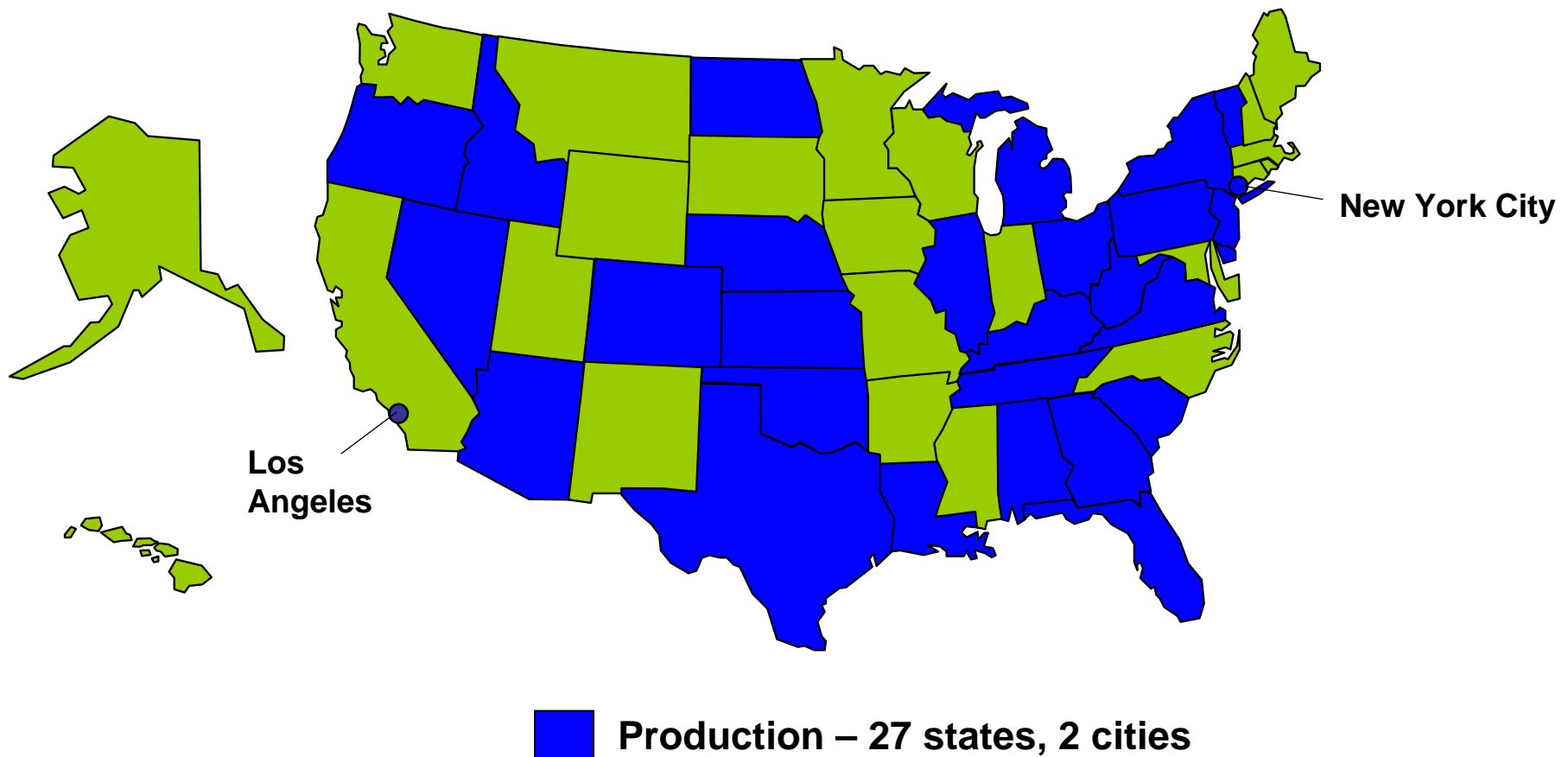
April 2005

Grantee capacity	Impact on disease reports	In daily use	Develop or deploy	planning
Capacity for web data entry	More timely	29*	12	15
Electronic Lab Reporting (excludes lead only)	More timely More cases	28	14	12

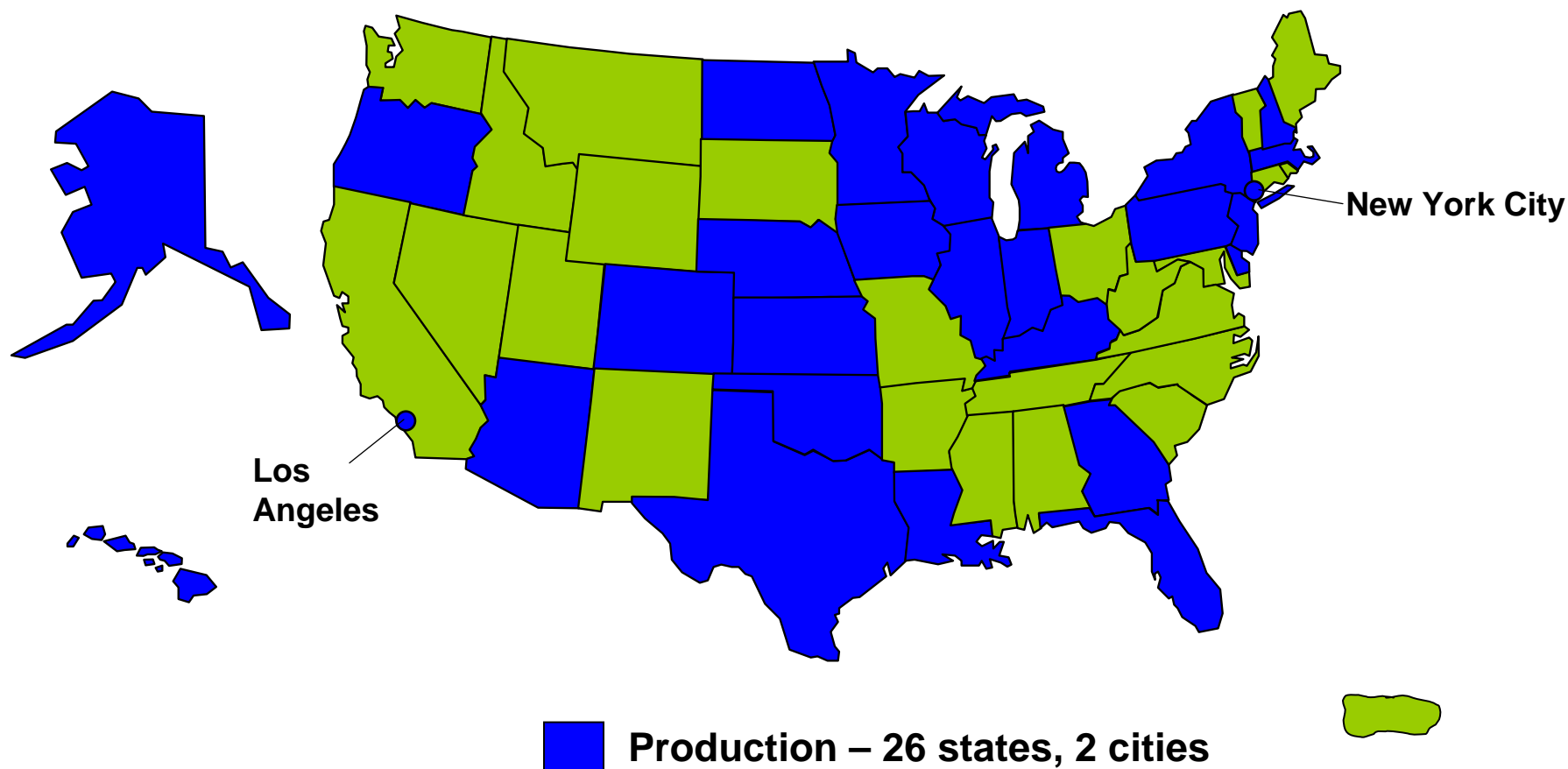
***application in use: 1 commercial (3 states); NEDSS Base System (10 states); custom (16)**

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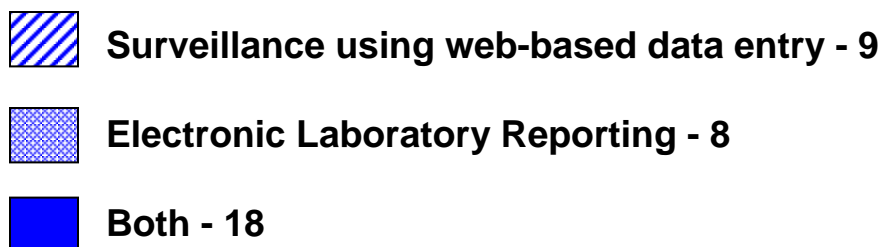
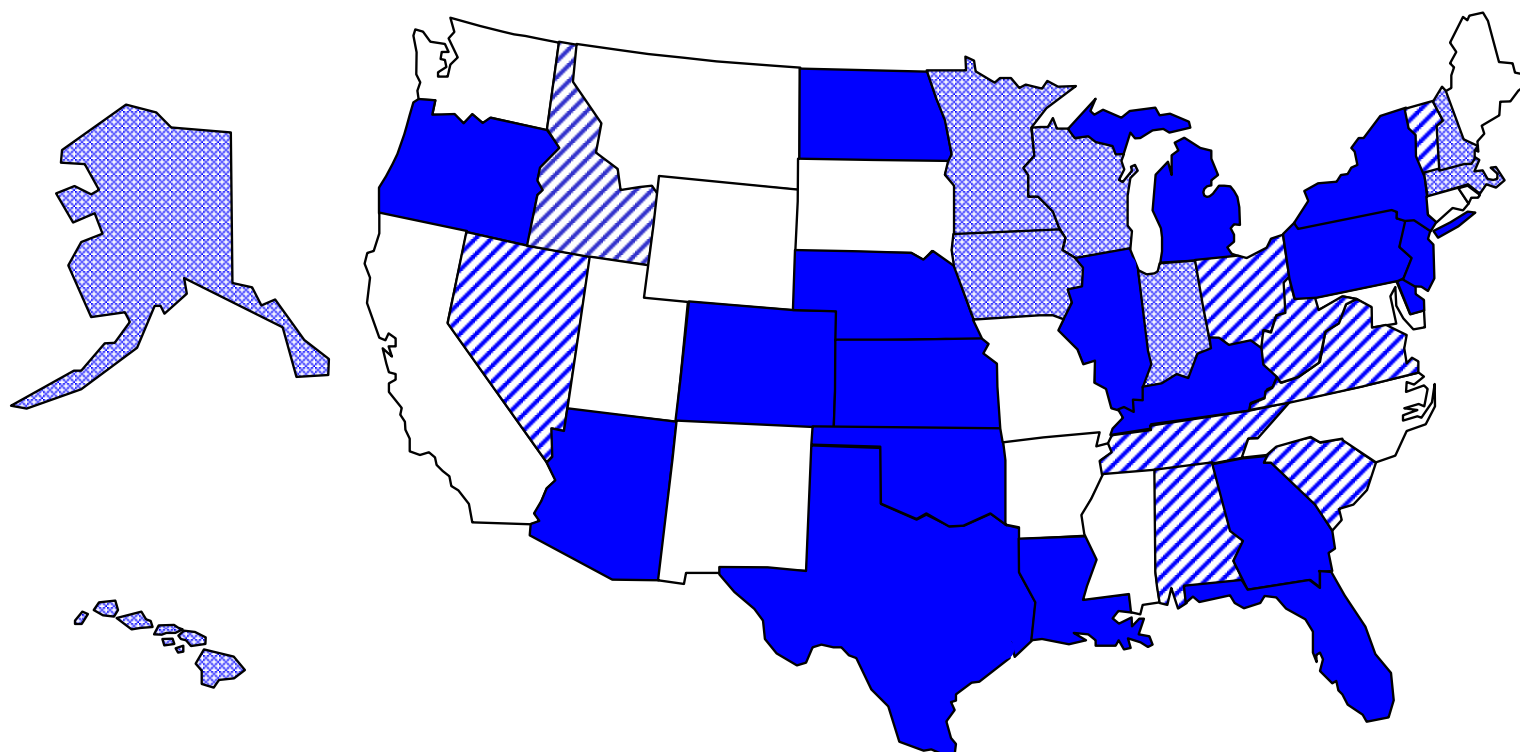
Surveillance using browser-based data entry over the Internet, April 2005



Electronic Laboratory Results Reporting, April 2005



State NEDSS Surveillance Functions, April 2005



Critical Issue-1

◆ Continuity and accountability of support for state PHIN surveillance systems

- State NEDSS/PHIN grant funding
 - Objective—preserve core state leadership for integrated surveillance/PHIN
 - Average award \$200,000
 - CDC Staffing—grants management, IT AND public health Technical Assistance, liaison with CDC programs
- Need for active engagement with state public health preparedness awards
- Maintenance of NEDSS budget line for state and local PHIN surveillance until meet defined level of functionality
 - Amount (FY 2005: \$24.7 million)

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Critical Issue 2

- ✦ Accelerate electronic lab result reporting capacity
 - Bring more states on line
 - Add labs in addition to LabCorp-- Quest, Mayo sending test messages into CDC test system— ARUP in discussions
 - Policy coordination with stakeholders— states, multi-jurisdictional laboratories, routine surveillance, Biosense,
 - IEC/CIC Data Standards Working Group is working on policies for ELR standards implementation

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Critical Issue 3

Maintain, enhance, & evolve NBS

- **NEDSS Base System 1.1.4**
 - Continued systematic approach for end user input—Danos leading Change Management Panel process
 - Maintenance, enhancements continue
- **NEDSS/PHIN deployment**
 - Integrated approach to PHIN deployment
 - Application Service Provider (ASP) model
 - 4 states have requested pilot with NBS

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Critical issue 4

- For PHIN/NEDSS compatible systems, ability to send PHIN notifiable disease message to CDC
 - “tools” needed: version 3 implementation guides, STF, V3 message receiver, pilot implementation(s), certification (workshop 5/13; PHIN conference presentations)
 - Once “tools” are available, develop policy jointly on target date by which states are transmitting data (either from state system or NBS)

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Critical issue 5

- ◆ Urgent need for additional program areas (TB, lead, STD, HIV, stroke, violent death)
- ◆ NCPHI will be presenting plan at PHIN conference for transition to new architecture for surveillance information systems
 - add new program areas more rapidly
 - integrate with either NBS or state PHIN compatible systems

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Critical Issue 6

- ◆ Ability of states and CDC programs to fully utilize data collected via NEDSS
 - PHIN Analysis, Visualization, and Reporting (AVR) user group led by Lesliann Helmus, VA DOH, has made dramatic progress in sharing state and CDC work on new datamarts
 - Resources needed for optimal use of information by all types of users

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Critical issue 7

- ◆ Accelerate PH lab participation in PHIN
 - Encourage funding of PHIN compliant Laboratory Information Management Systems (LIMS) by OTPER, NCID, states
 - Assure messaging technical assistance to connect PH labs

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How can local and state health departments accelerate their participation in PHIN surveillance ?

- ◆ Systems are complex and expensive: be strategic about approach that can be supported
 - “must have” vs “nice to have” functionality
 - Develop vs acquire
 - Application Service Provider (ASP) option to minimize need for local technical support capacity
- ◆ Use deployment process to examine business processes, integration with other PHIN and state systems
- ◆ Systems are highly configurable – commit time to configure!

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How will local and state health departments define success with NEDSS?

- ◆ Increased completeness & timeliness of reporting?
- ◆ Earlier detection of outbreaks?
- ◆ Faster response?
- ◆ Better informed policy?
- ◆ Decreased data entry burden—for health department? For partners?
- ◆ Easier to track and manage workflow?
- ◆ Increased analysis capacity for state and local personnel?
- ◆ Integration with other key state health information systems—alerting, outbreak investigation?

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